

COX I 5'-END NON-CODING REGION, CODING REGION:5964-7505 (1542bp), AND
3'-END NON-CODING REGION
(SEQ. ID. NO. 1)

5'-AGAGGCCTAA CCCCTGTCTTTAGATTTTAC AGTCCAATGCTTCACTCAGC
CATTTTACCT CACCCCCACT G

ATG TTC GCC GAC CGT TGA CTA TTC TCT ACA AAC CAC AAA GAC ATT GGA ACA
CTA TAC CTA TTA TTC GGC GCA TGA GCT GGA GTC CTA GGC ACA GCT CTA AGC
CTC CTT ATT CGA GCC GAG CTG GGC CAG CCA GGC AAC CTT CTA GGT AAC GAC
CAC ATC TAC AAC GTT ATC GTC ACA GCC CAT GCA TTT GTA ATA ATC TTC TTC
ATA GTA ATA CCC ATC ATA ATC GGA GGC TTT GGC AAC TGA CTA GTT CCC CTA
ATA ATC GGT GCC CCC GAT ATG GCG TTT CCC CGC ATA AAC AAC ATA AGC TTC
TGA CTC TTA CCT CCC TCT CTC CTA CTC CTG CTC GCA TCT GCT ATA GTG GAG
GCC GGA GCA GGA ACA GGT TGA ACA GTC TAC CCT CCC TTA GCA GGG AAC TAC
TCC CAC CCT GGA GCC TCC GTA GAC CTA ACC ATC TTC TCC TTA CAC CTA GCA
GGT GTC TCC TCT ATC TTA GGG GCC ATC AAT TTC ATC ACA ACA ATT ATC AAT
ATA AAA CCC CCT GCC ATA ACC CAA TAC CAA ACG CCC CTC TTC GTC TGA TCC

Fig. 1A

CAAAAAAGGA AGGAATCGAA CCCCCCAAG CTGGTTTCAA GCCAACCCCA TGGCCTCCAT
GACTTTTTCA AAAAGGTATT AGAAAAACCA TTTCATACT TTGTCAAAGT TAAATTATAG
GCTAA-3'

COX II 5'-END NON-CODING REGION, CODING REGION: 7646-8329 (684bp), AND
3'-END NON-CODING REGION
(SEQ. ID. NO. 2)

AGGTATTAGA AAAACCATTT CATAACTTTG TCGTCAAAGT TAAATTATAG
GCTAAATCCT ATATATCTTA

ATG GCA CAT GCA GCG CAA GTA GGT CTA CAA GAC GCT ACT TCC CCT ATC ATA
GAA GAG CTT ATC ACC TTT CAT GAT CAC GCC CTC ATA ATC ATT TTC CTT ATC
TGC TTC CTA GTC CTG TAT GCC CTT TTC CTA ACA CTC ACA ACA AAA CTA ACT
AAT ACT AAC ATC TCA GAC GCT CAG GAA ATA GAA ACC GTC TGA ACT ATC CTG
CCC GCC ATC ATC CTA GTC CTC ATC GCC CTC CCA TCC CTA CGC ATC CTT TAC
ATA ACA GAC GAG GTC AAC GAT CCC TCC CTT ACC ATC AAA TCA ATT GGC CAC
CAA TGG TAC TGA ACC TAC GAG TAC ACC GAC TAC GGC GGA CTA ATC TTC AAC
TCC TAC ATA CTT CCC CCA TTA TTC CTA GAA CCA GGC GAC CTG CGA CTC CTT
GAC GTT GAC AAT CGA GTA GTA CTC CCG ATT GAA GCC CCC ATT CGT ATA ATA
ATT ACA TCA CAA GAC GTC TTG CAC TCA TGA GCT GTC CCC ACA TTA GGC TTA
AAA ACA GAT GCA ATT CCC GGA CGT CTA AAC CAA ACC ACT TTC ACC GCT ACA
CGA CCG GGG GTA TAC TAC GGT CAA TGC TCT GAA ATC TGT GGA GCA AAC CAC
AGT TTC ATG CCC ATC GTC CTA GAA TTA ATT CCC CTA AAA ATC TTT GAA ATA
GGG CCC GTA TTT ACC CTA TAG

CACCCCCTCT ACCCCCTCTA GAGCCCACTG TAAAGCTAAC TTAGCATTAA C
CTTTTAAGT TAAAGATTAA GAGAACCAAC ACCTGTTTAC AGTGAAATGC

Fig. 2

COS III 5'-END NON-CODING REGION, CODING REGION: 9267-10052 (785
bp), AND 3'-END NON-CODING REGION
(SEQ. ID. NO. 3)

TCGCTGTCGC CTTAATCCAA GCCTACGTTT TCACACTTCT AGTAAGCCTC
TACCTGCACG ACAACACATA

ATG ACC CAC CAA TCA CAT GCC TAT CAT ATA GTA AAA CCC AGC CCA TGA CCC
CTA ACA GGG GCC CTC TCA GCC CTC CTA ATG ACC TCC GGC CTA GCC ATG TGA
TTT CAC TTC CAC TCC ATA ACG CTC CTC ATA CTA GGC CTA CTA ACC AAC ACA
CTA ACC ATA TAC CAA TGA TGG CGC GAT GTA ACA CGA GAA AGC ACA TAC CAA
GGC CAC CAC ACA CCA CCT GTC CAA AAA GGC CTT CGA TAC GGG ATA ATC CTA
TTT ATT ACC TCA GAA GTT TTT TTC TTC GCA GGA TTT TTC TGA GCC TTT TAC
CAC TCC AGC CTA GCC CCT ACC CCC CAA TTA GGA GGG CAC TGG CCC CGA ACA
GGC ATC ACC CCG CTA AAT CCC CTA GAA GTC CCA CTC CTA AAC ACA TCC GTA
TTA CTC GCA TCA GGA GTA TCA ATC ACC TGA GCT CAC CAT AGT CTA ATA GAA
AAC AAC CGA AAC CAA ATA ATT CAA GCA CTG CTT ATT ACA ATT TTA CTG GGT
CTC TAT TTT ACC CTC CTA CAA GCC TCA GAG TAC TTC GAG TCT CCC TTC ACC
ATT TCC GAC GGC ATC TAC GGC TCA ACA TTT TTT GTA GCC ACA GGC TTC CAC
GGA CTT CAC GTC ATT ATT GGC TCA ACT TTC CTC ACT ATC TGC TTC ATC CGC
CAA CTA ATA TTT CAC TTT ACA TCC AAA CAT CAC TTT GGC TTC GAA GCC GCC
GCC TGA TAC TGG CAT TTT GTA GAT GTG GTT TGA CTA TTT CTG TAT GTC TCC
ATC TAT TGA TGA GGG TCT TAC

TCTTTTAGTA TAAATAGTAC CGTTAACTTC CAATT
AACTA GTTTTGACAA CATTCAAAAA AGAGTAATAA ACTTCGCCTT AATTTTAATA
ATCAACACCC

Fig. 3

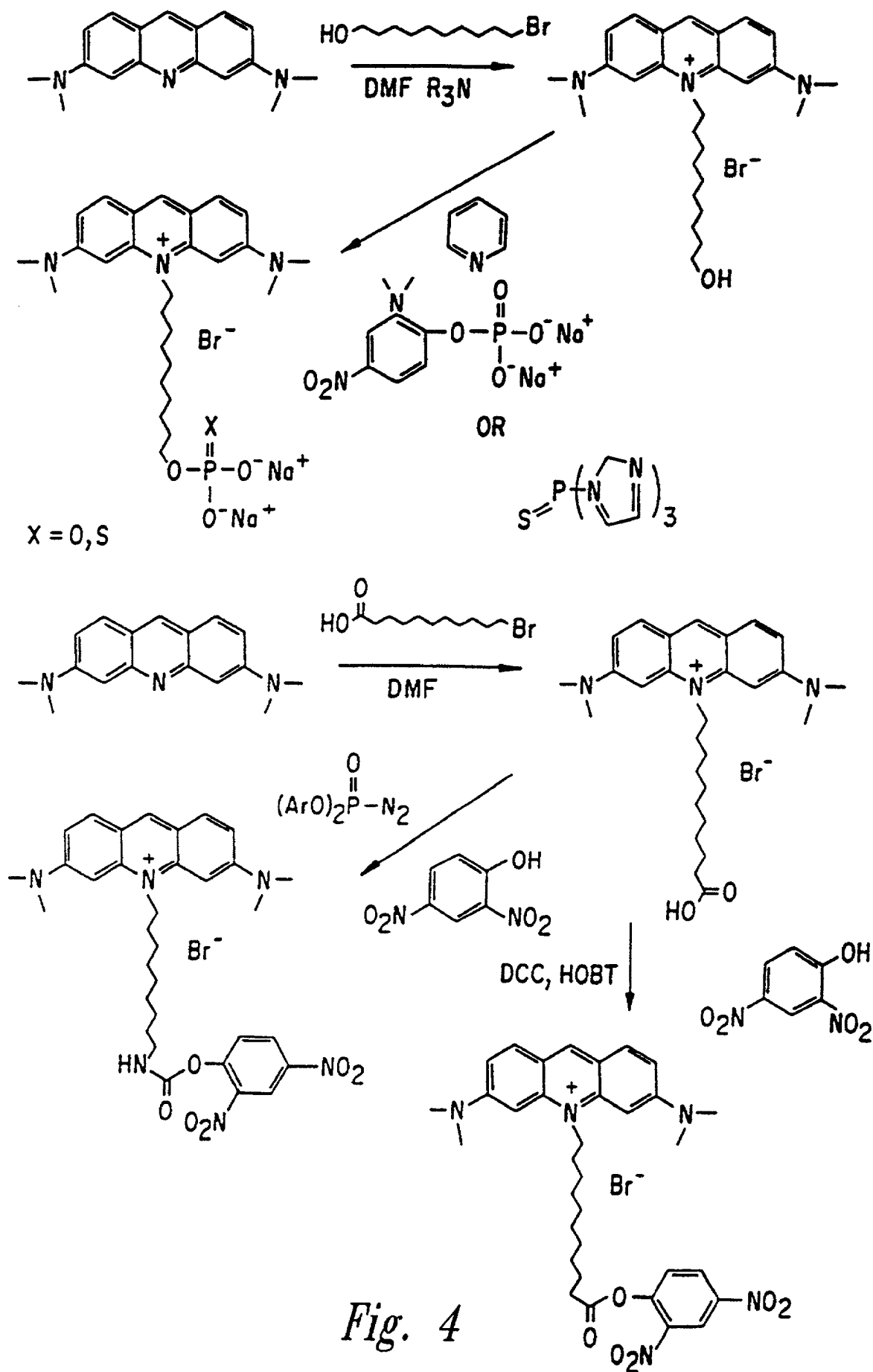


Fig. 4

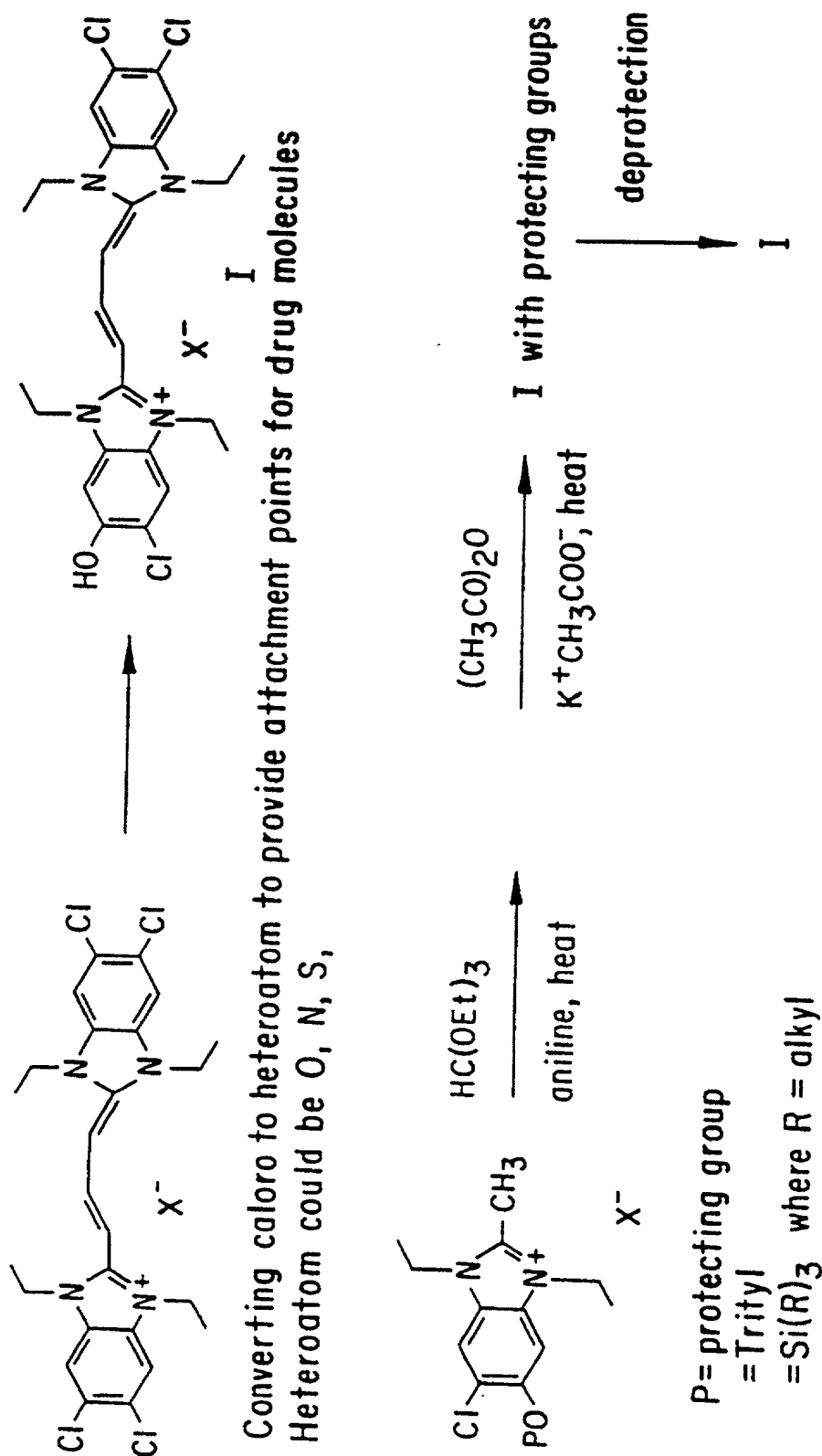
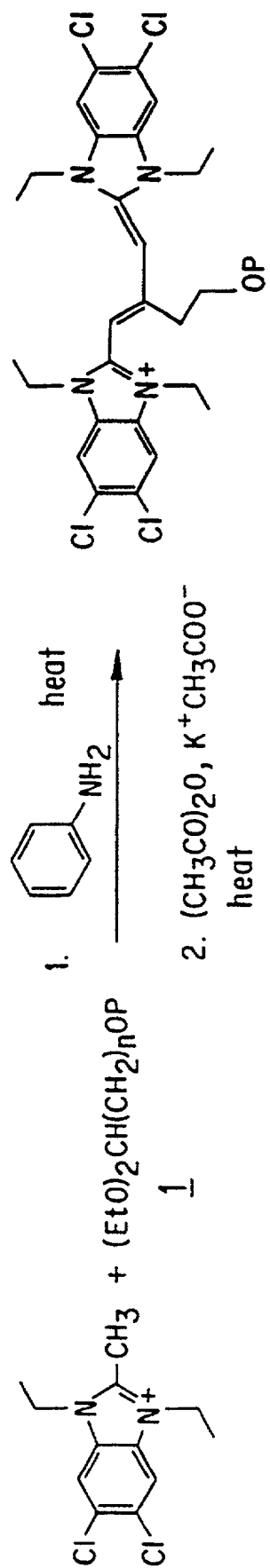


Fig. 5



The spacer in 1 could be varied in length such that $n = 1$ to 10

Fig. 6

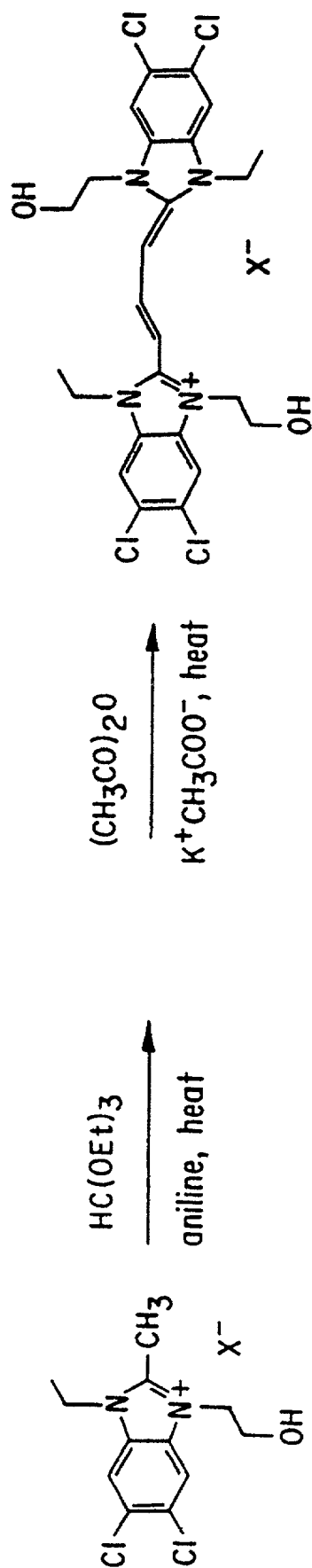
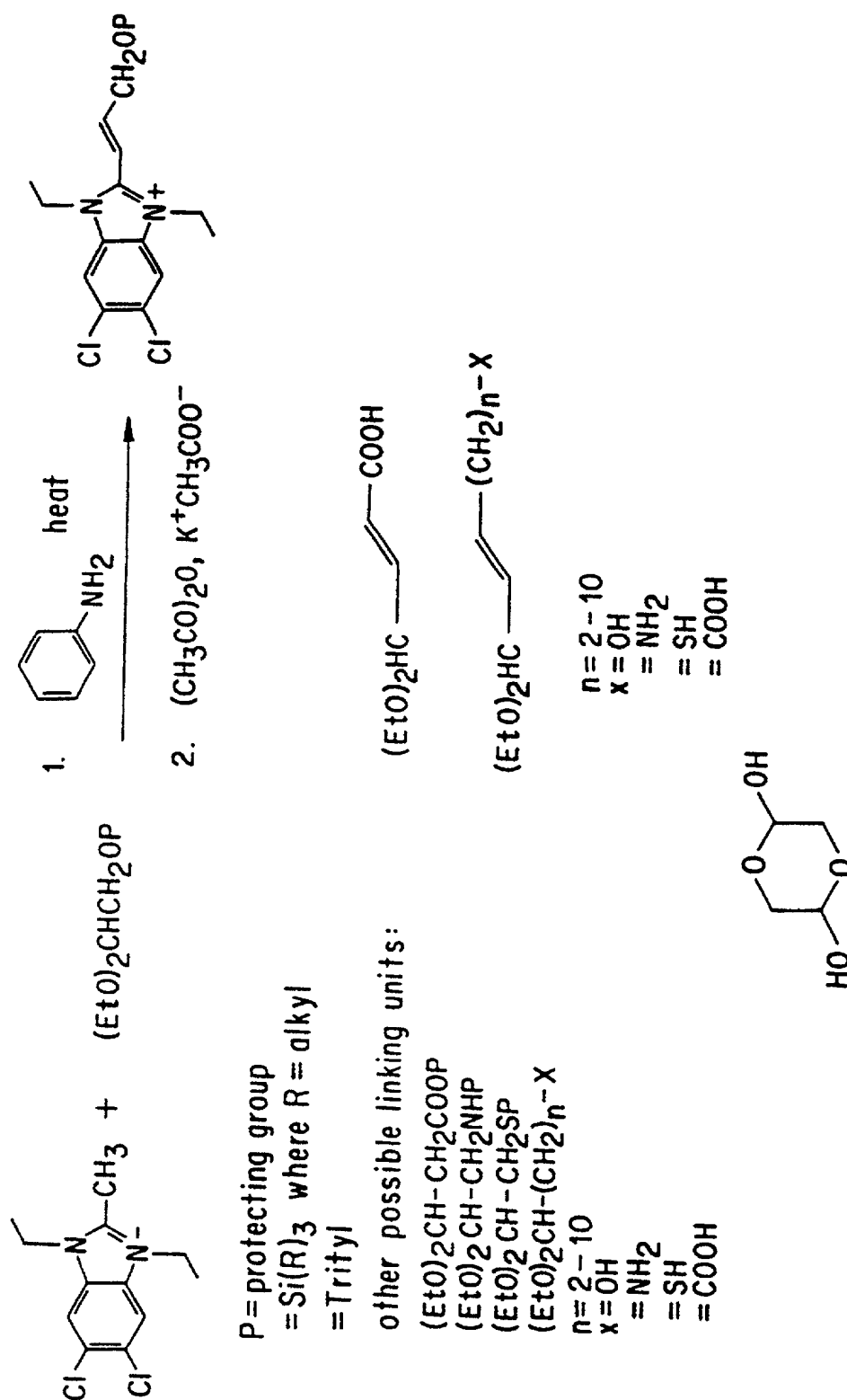


Fig. 7



For each acetal represented, this could also be a ketal where H is replaced by an alkyl group C1 to C10

Fig. 8